

ABSTRACT

The inner space of each via hole can be increased while the spacing between neighboring via holes in the axial direction of a coil is prevented from being narrowed. In via holes (3) of a laminated coil (1), through-holes (5) formed in ceramic layers (16) and filled with a conductor lie in a row in the lamination direction X, and, in each of the through-holes (5), the difference between the diameter in the axial direction of the coil (4) on the opening surface of one opening (5a) of a ceramic layer (16) and the diameter in the axial direction of the coil (4) on the opening surface of the other opening (5b) is smaller than the difference between the diameter in the direction Z perpendicular to the axial direction Y of the coil (4) on the opening surface of one opening (5a) of the ceramic layer (16) and the diameter in the direction Z perpendicular to the axial direction Y of the coil (4) on the opening surface of the other opening (5b).

(12)特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2005 年 3 月 17 日 (17.03.2005)

PCT

(10) 国際公開番号
WO 2005/024863 A1(51) 国際特許分類⁷: H01F 17/00

(21) 国際出願番号: PCT/JP2004/008753

(22) 国際出願日: 2004 年 6 月 22 日 (22.06.2004)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ
特願2003-309027 2003 年 9 月 1 日 (01.09.2003) JP

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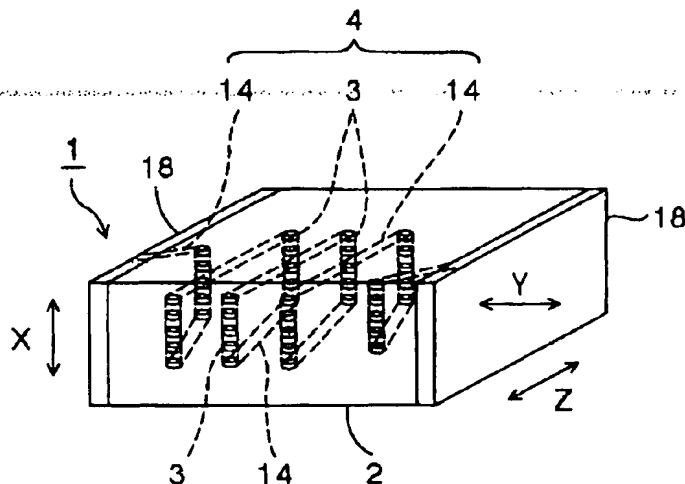
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(81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AF, AG, AI., AM, AT, AU, A7, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[続葉有]

(54) Title: LAMINATED COIL COMPONENT AND METHOD OF PRODUCING THE SAME

(54) 発明の名称: 積層コイル部品及びその製造方法



(57) Abstract: It is made possible to increase the volume of each via hole while preventing the distance between via holes disposed adjacent each other along the axial direction of a coil from being reduced. Via holes (3) in a laminated coil component (1) are formed in each ceramic layer (16) and through-holes (5) each filled with a conductor lie in a line in the laminating direction (X). Each of the through-holes (5) has a cubic form such that the difference between the diameter along the axial direction (Y) of a coil (4) in the open surface of an opening (5a) on one side of the ceramic layer (16) and the diameter along the axial direction (Y) of the coil (4) in the open surface of an opening (5b) on the other side is smaller than the difference between the diameter in a direction (Z) orthogonal to the axial direction (Y) of the coil (4) in the open surface of the opening (5a) on one side of the ceramic layer (16) and the diameter in the direction (Z) orthogonal to the axial direction (y) of the coil (4) in the open surface of the opening (5b) on the other side.

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